

ABSTRACT OF THE DISCLOSURE

A fault-tolerant packet transmission system is disclosed that can avoid localized load concentration on a specific portion of a network, while autonomously keeping route optimization, without adding a route control function to non-mesh devices. In a packet transmission system including multiple wireless base stations and one or more terminal devices belonging to one of the wireless base stations, each of the wireless base stations has a location table describing each of the terminal devices associated with a corresponding wireless base station to which the terminal device currently belongs. The wireless base stations exchange the information in the location table with each other to update the location tables and forward a received packet to the next hop along a transmission route toward a destination terminal device.